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 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2  Jan 25   BLAST(R) searching in REGISTRY available in STN on the Web
 NEWS  3  Jan 29   FSTA has been reloaded and moves to weekly updates
 NEWS  4  Feb 01   DKILIT now produced by FIZ Karlsruhe and has a new update
                   frequency
 NEWS  5  Feb 19   Access via Tymnet and SprintNet Eliminated Effective 3/31/02
 NEWS  6  Mar 08   Gene Names now available in BIOSIS
 NEWS  7  Mar 22   TOXLIT no longer available
 NEWS  8  Mar 22   TRCTHERMO no longer available
 NEWS  9  Mar 28   US Provisional Priorities searched with P in CA/CAplus
                   and USPATFULL
 NEWS 10  Mar 28   LIPINSKI/CALC added for property searching in REGISTRY
 NEWS 11  Apr 02   PAPERCHEM no longer available on STN.  Use PAPERCHEM2 instead.
 NEWS 12  Apr 08   "Ask CAS" for self-help around the clock
 NEWS 13  Apr 09   BEILSTEIN: Reload and Implementation of a New Subject Area
 NEWS 14  Apr 09   ZDB will be removed from STN
 NEWS 15  Apr 19   US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
 NEWS 16  Apr 22   Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
 NEWS 17  Apr 22   BIOSIS Gene Names now available in TOXCENTER
 NEWS 18  Apr 22   Federal Research in Progress (FEDRIP) now available
 NEWS 19  Jun 03   New e-mail delivery for search results now available
 NEWS 20  Jun 10   MEDLINE Reload
 NEWS 21  Jun 10   PCTFULL has been reloaded
 NEWS 22  Jul 02   FOREGE no longer contains STANDARDS file segment

 NEWS EXPRESS  February 1 CURRENT WINDOWS VERSION IS V6.0d,
               CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
               AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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 NEWS WWW      CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 18:41:33 ON 10 JUL 2002

=> e agricola biosis embase caplus
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
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which has an index. This file does not have an index.

=> file agricola biosis embase caplus

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FULL ESTIMATED COST	0.21	0.21

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=> s 5(w)alpha(w)reductase
L1 8389 5(W) ALPHA(W) REDUCTASE

=> s l1 and sterol
L2 36 L1 AND STEROL

=> s steriod(w)5(w)alpha(w)reductase
L3 2 STERIOD(W) 5(W) ALPHA(W) REDUCTASE

=> d l3 1-2

L3 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1991:116042 BIOSIS
DN BA91:63432
TI EXPRESSION OF CYTOCHROME P-450-17-ALPHA 3-BETA HYDROXYSTEROID DEHYDROGENASE-DELTA-5-4-ISOMERASE AND STEROID 5-ALPHA REDUCTASE IN RAT H540 LEYDIG TUMOR CELLS.
AU MACK S O; LORENCE M C; ANDERSSON S; MASON J I
CS CECIL H. AND IDA GREEN CENT. REPRODUCTIVE BIOL. SCI., UNIV. TEX. SOUTHWESTERN MED. CENT., 5323 HARRY HINES BLVD., DALLAS, TEX. 75235-9051, USA.
SO MOL CELL ENDOCRINOL, (1990) 74 (3), R11-R17.
CODEN: MCEND6. ISSN: 0303-7207.
FS BA; OLD
LA English

L3 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1989:492617 BIOSIS
DN BA88:119154
TI EXPRESSION CLONING AND REGULATION OF STEROID 5-ALPHA-REDUCTASE AN ENZYME ESSENTIAL FOR MALE SEXUAL DIFFERENTIATION.
AU ANDERSSON S; BISHOP R W; RUSSELL D W
CS DEP. MOL. GENETICS, UNIV. TEXAS SOUTHWESTERN MED. CENT., DALLAS, TEXAS 75235.
SO J BIOL CHEM, (1989) 264 (27), 16249-16255.
CODEN: JBCHA3. ISSN: 0021-9258.
FS BA; OLD
LA English

=> d l2 1-10 au ti

L2 ANSWER 1 OF 36 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Delos, Sylvie (1); Carsol, Jean-Louis; Ghazarossian, Evelyne; Raynaud, Jean-Pierre; Martin, Pierre-Marie
TI Testosterone metabolism in primary cultures of human prostate epithelial cells and fibroblasts.

L2 ANSWER 2 OF 36 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Skoda-Foldes, Rita; Kollar, Laszlo (1); Horvath, Judit; Tuba, Zoltan
TI Steroidal alkenylphosphonates via palladium-catalyzed coupling reactions.

L2 ANSWER 3 OF 36 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Iehle, Catherine (1); Delos, Sylvie; Guirou, Olivier; Tate, Rothwell; Raynaud, Jean-Pierre; Martin, Pierre-Marie
TI Human prostatic steroid ***5*** - ***alpha*** - ***reductase*** isoforms: A comparative study of selective inhibitors.

L2 ANSWER 4 OF 36 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Delos, Sylvie; Iehle, Catherine; Martin, Pierre-Marie; Raynaud, Jean-Pierre (1)
TI Inhibition of the activity of basic ***5*** - ***alpha*** - ***reductase*** (type 1) detected in DU 145 cells and expressed in insect cells.

L2 ANSWER 5 OF 36 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU PRASAD V V K; MATHUR C; WELCH M; LIEBERMAN S
TI STEROIDOGENIC POTENTIAL OF LYOPHILIZED MITOCHONDRIA FROM BOVINE ADRENOCORTICAL TISSUE.

L2 ANSWER 6 OF 36 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU BORRIS R P; BURG R W; HENSENS O D; HUANG L; KELEMEN L; MOCHALES S
TI ***STEROL*** INHIBITORS OF TESTOSTERONE ***5*** - ***ALPHA*** - ***REDUCTASE*** .

L2 ANSWER 7 OF 36 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU JONG WASVARY M; KOTHARI H V; STEELE R E; GRUENFELD N; STEINETZ B G
TI IDENTIFICATION OF POTENTIAL ANTIATHEROSCLEROTIC-HYPOLIPIDEMIC AGENTS BY THEIR EFFECT ON HEPATIC CONVERSION OF ANDROST-4-ENE-3 17-DIONE TO ETIOCHOLANOLONE AND ANDROSTERONE.

L2 ANSWER 8 OF 36 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AU EINARSSON K; GUSTAFSSON J-A
TI EFFECTS OF A POTENT CATA TOXIC STEROID 16-ALPHA CYANO PREGNENOLONE ON MICROSOMAL METABOLISM OF STEROID HORMONES ***STEROLS*** AND BILE ACIDS IN RATS.

L2 ANSWER 9 OF 36 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU Bayne C.W.; Ross M.; Donnelly F.; Habib F.K.
TI The selectivity and specificity of the actions of the lipido-sterolic extract of serenoa repens (Permixon.RTM.) on the prostate.

L2 ANSWER 10 OF 36 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU Bratoeff E.; Ramirez E.; Murillo E.; Flores G.; Cabeza M.
TI Steroidal antiandrogens and ***5*** . ***alpha*** .- ***reductase*** inhibitors.

=> s l2 and plant
L4 5 L2 AND PLANT

=> d l4 1-5

L4 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1996:115572 BIOSIS
DN PREV199698687707
TI Testosterone metabolism in primary cultures of human prostate epithelial cells and fibroblasts.
AU Delos, Sylvie (1); Carsol, Jean-Louis; Ghazarossian, Evelyne; Raynaud, Jean-Pierre; Martin, Pierre-Marie
CS (1) Lab. Cancerologie Experimentale, Fac. Med. Secteur Nord, Bd Pierre Dramard, 13916 Marseille Cedex 20 France
SO Journal of Steroid Biochemistry and Molecular Biology, (1995) Vol. 55, No. 3-4, pp. 375-383.
ISSN: 0960-0760.
DT Article
LA English

L4 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1995:547398 BIOSIS
DN PREV199698561698
TI Human prostatic steroid ***5*** - ***alpha*** - ***reductase*** isoforms: A comparative study of selective inhibitors.
AU Iehle, Catherine (1); Delos, Sylvie; Guirou, Olivier; Tate, Rothwell; Raynaud, Jean-Pierre; Martin, Pierre-Marie
CS (1) Lab. de Cancerologie Experimentale, Fac. de Med., Secteur Nord, Bd Pierre Dramard, 13916 Marseille Cedex 20 France
SO Journal of Steroid Biochemistry and Molecular Biology, (1995) Vol. 54, No. 5-6, pp. 273-279.
ISSN: 0960-0760.
DT Article
LA English

L4 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1994:224347 BIOSIS
DN PREV199497237347
TI Inhibition of the activity of basic ***5*** - ***alpha*** - ***reductase*** (type 1) detected in DU 145 cells and expressed in insect cells.

AU Delos, Sylvie; Iehle, Catherine; Martin, Pierre-Marie; Raynaud, Jean-Pierre (1)
CS (1) ARIBIO 67 Boulevard Suchet, 75016 Paris France
SO Journal of Steroid Biochemistry and Molecular Biology, (1994) Vol. 48, No. 4, pp. 347-352.
ISSN: 0960-0760.
DT Article
LA English

L4 ANSWER 4 OF 5 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AN 2000291115 EMBASE
TI The selectivity and specificity of the actions of the lipido-sterolic extract of serenoa repens (Permixon.RTM.) on the prostate.
AU Bayne C.W.; Ross M.; Donnelly F.; Habib F.K.
CS F.K. Habib, Prostate Research Group, University Department of Oncology, Western General Hospital, Edinburgh EH4 2XU, United Kingdom
SO Journal of Urology, (2000) 164/3 I (876-881).
Refs: 31
ISSN: 0022-5347 CODEN: JOURAA
CY United States
DT Journal; Article
FS 028 Urology and Nephrology
030 Pharmacology
037 Drug Literature Index
LA English
SL English

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2002 ACS
AN 2000:742265 CAPLUS
DN 133:307835
TI Transgenic ***plants*** carrying expression constructs for seed-specific biosynthesis of ***sterols*** and tocopherols
IN Venkatramesh, Mylavarapu; Corbin, David R.; Bhat, Ganesh B.; Boddupalli, Sekhar S.; Grebenok, Robert J.; Kishore, Ganesh M.; Lardizabal, Kathryn D.; Lassner, Michael W.; Rangwala, Shaukat H.; Karunanandaa, Balasulojini
PA Monsanto Company, USA
SO PCT Int. Appl., 167 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000061771	A2	20001019	WO 2000-US9696	20000412
WO 2000061771	A3	20010705		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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EP 1169462	A2	20020109	EP 2000-922076	20000412

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

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     BR 2000010597      A     20020213        BR 2000-10597     20000412
PRAI US 1999-128995P    P     19990412
     WO 2000-US9696     W     20000412


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                                                       ENTRY    SESSION
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LAST RELOADED: Jul  5, 2002 (20020705/UP).

=> d l4 1-4 ab
YOU HAVE REQUESTED DATA FROM FILE 'BIOSIS, EMBASE, CAPLUS' - CONTINUE? (Y)/N:y


L4    ANSWER 1 OF 5  BIOSIS  COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AB    We compare testosterone (T) metabolism in primary cultures of epithelial
      cells and fibroblasts separated from benign prostate hypertrophy (BPH) and
      prostate cancer tissues. In all cultures, androstenedione (DELTA-4) formed
      by oxidation of T by 17-beta-hydroxysteroid dehydrogenase (17-beta-HSD)
      represented 80% of the metabolites recovered. The amounts of
      5-alpha-dihydrotestosterone (DHT), formed by reduction of T by   ***5***
      -  ***alpha***  -  ***reductase***   (5-alpha-R), were small: 5 and 2%
      (BPH) and 8 and 15% (adenocarcinoma) for epithelial cells and fibroblasts,
      respectively. Northern blot analysis of total RNA from epithelial cells
      (BPH or adenocarcinoma) attributed the reductive activity to the   ***5***
      -  ***alpha***  -  ***reductase***   type 1 isozyme and oxidative activity
      to the 17-beta-HSD type 2. In cancer fibroblasts, only little 17-beta-HSD
      type 2 mRNA was detected. The   ***5***  -  ***alpha***  -
        ***reductase***   inhibitors, 4-MA (17-beta-(N,N-diethyl)carbamoyl-4-
      methyl-4-aza-5-alpha-androstan-3-one) and finasteride, inhibited DHT
      formation with a preferential action of 4-MA on epithelial cells (BPH or
      adenocarcinoma) and of finasteride on fibroblasts from adenocarcinoma.
      Neither inhibitor acted on DELTA-4 formation. On the other hand, the
      lipido-  ***sterol***   extract of Serenoa repens (LSESr, Permixon)
      inhibited the formation of all the T metabolites studied (IC-50s = 40 and
      200 mu-g/ml (BPH) and 90 and 70 mu-g/ml (adenocarcinoma) in epithelial
      cells and fibroblasts, respectively). These results have important
      therapeutic implications when selecting appropriate treatment options for
      BPH.

L4    ANSWER 2 OF 5  BIOSIS  COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AB    The present study describes the independent expression of the type 1 and 2
      isoforms of human   ***5***  -  ***alpha***  -  ***reductase***   in the
      baculovirus-directed insect cell expression system and the selectivity of
      their inhibition. The catalytic properties and kinetic parameters of the
      recombinant isozymes were consistent with published data. The type 1
      isoform displayed a neutral (range 6-8) pH optimum and the type 2 isoform
      an acidic (5-6) pH optimum. The type 2 isoform had higher affinity for
```

testosterone than did the type 1 isoform (K-m = 0.5 and 2.9 mu-M, respectively). Finasteride and turosteride were selective inhibitors of the type 2 isoform (K-i (type 2) = 7.3 and 21.7 nM compared to K-i (type 1) = 108 and 330 nM, respectively). 4-MA and the lipido- ***sterol*** extract of Serenoa repens (LSESr) markedly inhibited both isozymes (K-i (type 1) = 8.4 nM and 7.2 mu-g/ml, respectively; K-i (type 2) = 7.4 nM and 4.9 mu-g/ml, respectively). The three azasteroids were competitive inhibitors vs substrate, whereas LSESr displayed non-competitive inhibition of the type 1 isozyme and uncompetitive inhibition of the type 2 isozyme. These observations suggest that the lipid component of LSESr might be responsible for its inhibitory effect by modulating the membrane environment of ***5*** - ***alpha*** - ***reductase*** . Partially purified recombinant ***5*** - ***alpha*** - ***reductase*** type 1 activity was preserved by the presence of lipids indicating that lipids can exert either stimulatory or inhibitory effects on human ***5*** - ***alpha*** - ***reductase*** .

L4 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AB The purpose of this study was 2-fold: (1) to identify the ***5*** - ***alpha*** - ***reductase*** (5-alpha-R) isozyme(s) present in DU 145 cells, a human cell-line of low androgen sensitivity derived from a cerebral metastasis of an epithelial prostate cancer; and (2) to compare the inhibitory potencies of three compounds on the 'basic' 5-alpha-R isozyme expressed in a baculovirus-directed insect cell system. Conversion of testosterone (T) into 5-alpha-dihydrotestosterone (DHT) in DU 145 cells was measured by HPLC coupled to a Flo-one HP radioactivity detector. DU 145 cells exhibited 5-alpha-R activity (21 pmol DHT/min/mg protein) at pH 7.4 which disappeared at pH 5.5 suggesting that, of the two genomically distinct human isozymes identified so far, type 1 5-alpha-R is expressed in DU 145 cells. This was confirmed by at least two observations: first, 5-alpha-R activity in DU 145 cells was inhibited with much higher potency by 4-MA than by finasteride which is known to be a very poor competitor of the 'basic' enzyme (IC-50s=2.8 +- 0.2 and 264 +- 55 nM, respectively). Second, only the type 1 5-alpha-R cDNA and not type 2 5-alpha-R cDNA hybridized with DU 145 RNA. A high potency differential was also recorded for the inhibition of 'basic' type 1 5-alpha-R expressed in a bacuolovirus-directed-insect cell system by these two compounds, 4-MA being considerably more active than finasteride (K-i = 8.4 +- 2.3 and 330 +- 9 nM, respectively). This inhibition was competitive. On the other hand, inhibition by an n-hexane lipid/ ***sterol*** extract of Serenoa repens (LSESr) was non-competitive and, when expressed in terms of recommended therapeutic doses, was 3-fold greater for LSESr than for finasteride. These studies suggest that LSESr might exert a regulatory inhibitory activity due to its specific lipid/ ***sterol*** composition.

L4 ANSWER 4 OF 5 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

AB Purpose: To investigate the effects of the phytotherapeutic agent, Permixon.RTM., on primary cultures of fibroblast and epithelial cells from the prostate, epididymis, testes, kidney, skin and breast and to determine the selectivity and specificity of the action of the drug. Materials and Methods: All primary cultures were examined by electron microscopy before and following treatment with Permixon.RTM. (10 .mu.g./ml.). In addition the apoptotic index was assessed by flow cytometry employing propidium iodide as a fluorophore. The impact of the drug on ***5*** .

alpha .- ***reductase*** (5.alpha.R) isoenzymes was also tested
utilizing a pH specific assay. Results: There were changes in the morphology of prostate cells after treatment including accumulation of lipid in the cytoplasm and damage to the nuclear and mitochondrial membranes; no similar changes were observed in other cells. Permixon.RTM. increased the apoptotic index for prostate epithelial cells by 35% and 12% in the prostate stromal/fibroblast. A lesser apoptotic effect was demonstrated in skin fibroblast (3%) whereas none of the other primary cultures showed any increase in apoptosis when compared with the controls. Permixon.RTM. was also an effective inhibitor of both 5.alpha.R type I and II isoenzymes in prostate cells, but other cells showed no inhibition of 5.alpha.R activity following treatment with the ***plant*** extract. Conclusions: This investigation demonstrated the selectivity of the action of Permixon.RTM. for prostate cells. The morphological changes in the prostate are accompanied by an increase in the apoptotic index along with an inhibition in the activity of the nuclear membrane bound 5.alpha.R isoenzymes. No similar changes were observed in any of the other cells under investigation.

=> d l4 5 ab
YOU HAVE REQUESTED DATA FROM FILE 'BIOSIS, EMBASE, CAPLUS' - CONTINUE? (Y)/N:y

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2002 ACS
AB Expression constructs for genes for enzymes of ***sterol*** and polyisoprenoid metab. that can be used to alter patterns of biosynthesis and accumulation of ***sterol*** compds. and tocopherols in transgenic ***plants*** are described. Also provided are methods of using such constructs to produce transgenic ***plants*** , seeds of which contain elevated levels of sitostanol and/or sitostanol esters, and .alpha.-tocopherol, as well as reduced levels of campesterol and campestanol and their corresponding esters. These seeds also contain the novel ***sterol*** brassicastanol. Oil obtained from seeds of such transgenic ***plants*** is also provided. This oil can be used to prep. food and pharmaceutical compns. effective in lowering the level of low d. lipoprotein cholesterol in blood serum. In addn., novel DNA sequences encoding ***plant*** steroid ***5*** . ***alpha*** .- ***reductases*** are also disclosed.

=> s steroid and 5 and reductases
0 STEROID
109 5
0 REDUCTASES
L5 0 STEROID AND 5 AND REDUCTASES

=> file agricola biosis embase caplus

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FULL ESTIMATED COST	0.18	66.10

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=> s steroid and 5 and reductases
L6 512 STEROID AND 5 AND REDUCTASES

=> s l6 and plant?
L7 32 L6 AND PLANT?

=> s l7 and transform?
L8 1 L7 AND TRANSFORM?

=> d l8 1

L8 ANSWER 1 OF 1 AGRICOLA
AN 97:75217 AGRICOLA
DN IND20597864
TI Conservation of function between mammalian and ***plant***
steroid ***5*** alpha- ***reductases*** .
AU Li, J.; Biswas, M.G.; Chao, A.; Russell, D.W.; Chory, J.
CS Salk Institute, La Jolla, CA.
SO Proceedings of the National Academy of Sciences of the United States of America, Apr 15, 1997. Vol. 94, No. 8. p. 3554-3559
Publisher: Washington, D.C. : National Academy of Sciences,
CODEN: PNASA6; ISSN: 0027-8424
NTE Includes references
CY District of Columbia; United States
DT Article; Conference
FS U.S. Imprints not USDA, Experiment or Extension
LA English

=> FIL STNGUIDE

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FULL ESTIMATED COST	11.83	77.93

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CA SUBSCRIBER PRICE	0.00	-0.62

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=> file agricola biosis embase caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.54	78.47

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.62

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=> s ET2 and brassinosteroids
L9 0 ET2 AND BRASSINOSTEROIDS

=> s DET2 and brassinosteroids
L10 38 DET2 AND BRASSINOSTEROIDS

=> s l10 and transform?
L11 2 L10 AND TRANSFORM?

=> d l11 1-2

L11 ANSWER 1 OF 2 AGRICOLA
AN 97:75217 AGRICOLA
DN IND20597864
TI Conservation of function between mammalian and plant steroid 5 alpha-reductases.
AU Li, J.; Biswas, M.G.; Chao, A.; Russell, D.W.; Chory, J.
CS Salk Institute, La Jolla, CA.
SO Proceedings of the National Academy of Sciences of the United States of America, Apr 15, 1997. Vol. 94, No. 8. p. 3554-3559
Publisher: Washington, D.C. : National Academy of Sciences,
CODEN: PNASA6; ISSN: 0027-8424
NTE Includes references
CY District of Columbia; United States

DT Article; Conference
FS U.S. Imprints not USDA, Experiment or Extension
LA English

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
AN 2001:605831 CAPLUS
DN 135:353475
TI Overexpression of DWARF4 in the brassinosteroid biosynthetic pathway results in increased vegetative growth and seed yield in Arabidopsis
AU Choe, Sunghwa; Fujioka, Shozo; Noguchi, Takahiro; Takatsuto, Suguru; Yoshida, Shigeo; Feldmann, Kenneth A.
CS Department of Plant Sciences, University of Arizona, Tucson, AZ, 85721, USA
SO Plant Journal (2001), 26(6), 573-582
CODEN: PLJUED; ISSN: 0960-7412
PB Blackwell Science Ltd.
DT Journal
LA English
RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s steroid(w)5a-reductase
L12 9 STEROID(W) 5A-REDUCTASE

=> duplicate remove l12
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L13 9 DUPLICATE REMOVE L12 (0 DUPLICATES REMOVED)

=> d l13 1-9

L13 ANSWER 1 OF 9 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AN 2000236343 EMBASE
TI Biochemical and pharmacogenetic dissection of human steroid 5.alpha.-reductase type II.
AU Makridakis N.M.; Di Salle E.; Reichardt J.K.V.
CS J.K.V. Reichardt, Institute for Genetic Medicine, Keck School of Medicine, University Southern California, 2250 Alcazar Street, Los Angeles, CA 90089-9075, United States. reichard@hsc.usc.edu
SO Pharmacogenetics, (2000) 10/5 (407-413).
Refs: 15
ISSN: 0960-314X CODEN: PHMCEE
CY United Kingdom
DT Journal; Article
FS 016 Cancer
022 Human Genetics
028 Urology and Nephrology
029 Clinical Biochemistry
030 Pharmacology
037 Drug Literature Index
LA English
SL English

L13 ANSWER 2 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2000:212006 BIOSIS

DN PREV200000212006
TI Pharmacogenetics of human ***steroid*** ***5A*** - ***reductase*** type 2.
AU Reichardt, Juergen K. V. (1); Makridakis, N. M.; di Salle, E.
CS (1) Pharmacia and Upjohn, Nerviano Italy
SO Proceedings of the American Association for Cancer Research Annual Meeting, (March, 2000) No. 41, pp. 25-26.
Meeting Info.: 91st Annual Meeting of the American Association for Cancer Research. San Francisco, California, USA April 01-05, 2000
ISSN: 0197-016X.
DT Conference
LA English
SL English

L13 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1999:617599 CAPLUS
TI 3-oxo-4aza-5a-7b-methylpregnan-20-ethers as inhibitors of human type 1 5a-reductase: Synthesis and structure-activity relationship.
AU Patel, G. F.; Bakshi, R. K.; Rasmusson, G. H.; Tolman, R. L.; Chang, B. C.; Ellsworth, K. P.; Harris, G. S.
CS Department of Medicinal Chemistry and Enzymology, Merck Research Laboratories, Rahway, NJ, 07065, USA
SO Book of Abstracts, 218th ACS National Meeting, New Orleans, Aug. 22-26 (1999), MEDI-226 Publisher: American Chemical Society, Washington, D. C.
CODEN: 67ZJA5
DT Conference; Meeting Abstract
LA English

L13 ANSWER 4 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1998:448141 BIOSIS
DN PREV199800448141
TI Cloning, expression and characterization of rhesus macaque types 1 and 2 5alpha-reductase: Evidence for mechanism-based inhibition by finasteride.
AU Ellsworth, K. P.; Azzolina, B. A.; Cimis, G.; Bull, H. G.; Harris, G. S. (1)
CS (1) Dep. Biochem., Merck Res. Lab., R80Y-140, P.O. Box 2000, Rahway, NJ 07065 USA
SO Journal of Steroid Biochemistry and Molecular Biology, (Sept., 1998) Vol. 66, No. 5-6, pp. 271-279.
ISSN: 0960-0760.
DT Article
LA English

L13 ANSWER 5 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2002:85538 BIOSIS
DN PREV200200085538
TI ***Steroid*** ***5a*** - ***reductases*** .
AU Andersson, S.; Russell, D. W.
CS New York, N.Y. USA
ASSIGNEE: BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM
PI US 5679521 Oct. 21, 1997
SO Official Gazette of the United States Patent and Trademark Office Patents, (Oct. 21, 1997) Vol. 1203, No. 3, pp. 2169.
ISSN: 0098-1133.
DT Patent
LA English

L13 ANSWER 6 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1997:109126 BIOSIS
DN PREV199799408329
TI Occurrence of steroidogenic enzymes in the bovine mammary gland at different functional stages.
AU Belvedere, P. (1); Gabai, G.; Dalla Valle, L.; Accorsi, P.; Trivoletti, M.; Colombo, L.; Bono, G.
CS (1) Dep. Biol., Univ. Padova, via Trieste 75, 35100 Padova Italy
SO Journal of Steroid Biochemistry and Molecular Biology, (1996) Vol. 59, No. 3-4, pp. 339-347.
ISSN: 0960-0760.
DT Article
LA English

L13 ANSWER 7 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2002:19027 BIOSIS
DN PREV200200019027
TI ***Steroid*** ***5A*** ***reductase*** nucleic acid segments and recombinant vectors and host cells.
AU Andersson, S.; Russell, D. W.
CS New York, N.Y. USA
ASSIGNEE: BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM
PI US 5422262 June 6, 1995
SO Official Gazette of the United States Patent and Trademark Office Patents, (June 6, 1995) Vol. 1175, No. 1, pp. 414.
ISSN: 0098-1133.
DT Patent
LA English

L13 ANSWER 8 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1995:477296 BIOSIS
DN PREV199598491596
TI Genotypes of the SRD5A2 locus encoding ***steroid*** ***5A*** - ***reductase*** type II and risk for prostate cancer in various racial/ethnic populations.
AU Reichardt, Juergen; Makridakis, Nick; Henderson, Brian; Wu, Anna; Pike, Malcolm; Ross, Ronald
CS USC Sch. Med., Los Angeles, CA USA
SO American Journal of Human Genetics, (1995) Vol. 57, No. 4 SUPPL., pp. A170.
Meeting Info.: 45th Annual Meeting of the American Society of Human Genetics Minneapolis, Minnesota, USA October 24-28, 1995
ISSN: 0002-9297.
DT Conference
LA English

L13 ANSWER 9 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1988:459052 BIOSIS
DN BA86:100771
TI INHIBITION OF STEROID 5-ALPHA-REDUCTASE AND ITS EFFECTS ON TESTOSTERONE HYDROXYLATION BY RAT LIVER MICROSOMAL CYTOCHROME P-450.
AU SONDERFAN A J; PARKINSON A
CS DEP. PHARMACOL., TOXICOL. THERAPEUTICS, UNIV. KANS. MED. CENT., KANSAS CITY, KANS. 66103.
SO ARCH BIOCHEM BIOPHYS, (1988) 265 (1), 208-218.
CODEN: ABBIA4. ISSN: 0003-9861.
FS BA; OLD

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LA   English


=> FIL STNGUIDE
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=> s steroid and reductase and plant and transform?
L14          19 STEROID AND REDUCTASE AND PLANT AND TRANSFORM?

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L15          18 DUPLICATE REMOVE L14 (1 DUPLICATE REMOVED)

=> d l15 1-10 au ti

L15  ANSWER 1 OF 18  BIOSIS  COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU   Bureik, Matthias; Schiffler, Burkhard; Hiraoka, Yasushi; Vogel, Frank;
     Bernhardt, Rita (1)
```

TI Functional expression of human mitochondrial CYP11B2 in fission yeast and identification of a new internal electron transfer protein, etp1.

L15 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2002 ACS
IN Frey, William H., II; Fawcett, John Randall; Thorne, Robert Gary; Chen, Xueqing
TI Methods and compositions for enhancing cellular function through protection of tissue components

L15 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS
IN Farr, Spencer
TI Methods of determining individual hypersensitivity to a pharmaceutical agent from gene expression profile

L15 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2002 ACS
IN Rana, Tariq M.
TI Methods for identifying RNA binding compounds

L15 ANSWER 5 OF 18 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.DUPLICATE 1
AU Cristoni A.; Di Pierro F.; Bombardelli E.
TI Botanical derivatives for the prostate.

L15 ANSWER 6 OF 18 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Cabeza, Marisa S. (1); Gutierrez, Edgar B.; Garcia, Genoveva A.; Avalos, Angeles H.; Hernandez, Miguel Angel H.
TI Microbial ***transformations*** of testosterone to 5alpha-dihydrotestosterone by two species of Penicillium: P. chrysogenum and P. crustosum.

L15 ANSWER 7 OF 18 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Hult, Malin; Jornvall, Hans; Oppermann, Udo C. T. (1)
TI Selective inhibition of human type 1 11beta-hydroxysteroid dehydrogenase by synthetic ***steroids*** and xenobiotics.

L15 ANSWER 8 OF 18 AGRICOLA
AU Li, J.; Biswas, M.G.; Chao, A.; Russell, D.W.; Chory, J.
TI Conservation of function between mammalian and ***plant*** ***steroid*** 5 alpha- ***reductases*** .

L15 ANSWER 9 OF 18 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Irrgang, Sylke (1); Schlosser, Dietmar; Fritsche, Wolfgang
TI Involvement of cytochrome P-450 in the 15-alpha-hydroxylation of 13-ethyl-gon-4-ene-3,17-dione by Penicillium raistrickii.

L15 ANSWER 10 OF 18 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Guarna, Antonio (1); Poletti, Angelo; Catrambone, Fernando; Danza, Giovanna; Marrucci, Alessandro; Serio, Mario; Celotti, Fabio; Martini, Luciano
TI Synthesis of chemiluminescent probe useful for the purification of ***steroid*** 5-alpha- ***reductase*** .

=> d l15 11-20 au ti

L15 ANSWER 11 OF 18 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU Toth I.; Szecsi M.; Julesz J.; Faredin I.; Behnke B.
TI [Inhibitory effects of Strogen Forte extract on the activities of rat and

human prostatic 5.alpha.- ***reductase*** in vitro].
A STROGEN FORTE EXTRACTUM IN VITRO GATLO HATASA A PATKANY- ES EMBERI PROSTATA 5.alpha.-REDUKTAZ ENZIM AKTIVITASARA.

L15 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2002 ACS
AU Chappell, Joseph; Wolf, Fred; Proulx, Jeanne; Cuellar, Rick; Saunders, Court
TI Is the reaction catalyzed by 3-hydroxy-3-methylglutaryl coenzyme A ***reductase*** a rate-limiting step for isoprenoid biosynthesis in ***plants*** ?

L15 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2002 ACS
AU Schaller, Hubert; Grausem, Bernard; Benveniste, Pierre; Chye, Mee-Len; Tan, Chio-Tee; Song, Yu-Hua; Chua, Nam-Hai
TI Expression of the Hevea brasiliensis (H.B.K.) Muell. Arg. 3-hydroxy-3-methylglutaryl-coenzyme A ***reductase*** 1 in tobacco results in sterol overproduction

L15 ANSWER 14 OF 18 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Ahmed, Farjad; Williams, Ralph A. D.; Smith, Kelvin E. (1)
TI Microbial ***transformation*** of ***steroids*** -IX. Purification of progesterone hydroxylase cytochrome P-450 from Phycomyces blakesleeanus.

L15 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2002 ACS
IN Chappell, Joseph; Saunders, Court A.; Wolf, Fred R.
TI Process and composition for increasing squalene and sterol accumulation in higher ***plants***

L15 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2002 ACS
IN Chappel, Joseph; Saunders, Court A.; Wolf, Fred Richard; Cuellar, Richard Elias
TI Increasing sterol accumulation in higher ***plants*** by raising levels of hydroxymethylglutaryl CoA ***reductase***

L15 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS
AU Yates, P. J.; Haughan, P. A.; Lenton, J. R.; Goad, L. J.
TI Four .DELTA.5,7-sterols from terbinafine treated celery cell suspension cultures

L15 ANSWER 18 OF 18 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Sakaki, Toshiyuki (1); Akiyoshi-Shibata, Megumi; Yabusaki, Yoshiyasu; Manabe, Kayo; Murakami, Hiroko; Ohkawa, Hideo
TI Progesterone metabolism in recombinant yeast simultaneously expressing bovine cytochromes P450c17 (CYP17A1) and P450c21 (CYP21B1) and yeast NADPH-P450 oxidoreductase.

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NEWS 16	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 17	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS 18	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 19	Jun 03	New e-mail delivery for search results now available
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=> s gene(w)10
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=> s gene(w)10(w)leader(w)sequence
L2           16 GENE(W) 10(W) LEADER(W) SEQUENCE

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L3            0 L2 AND RBCLRBS

=> s l2 and rbc
L4            0 L2 AND RBC

=> s l2 and ribosomal
L5            0 L2 AND RIBOSOMAL

=> d l2 1-16 au ti

L2   ANSWER 1 OF 16  BIOSIS  COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU   Andrews, Beth; Adari, Hedy; Hannig, Gerhard; Lahue, Elaine; Gosselin,
     Michael; Martin, Sue; Ahmed, Asma; Ford, Pamella J.; Hayman, Edward G.;
     Makrides, Savvas C. (1)
TI   A tightly regulated high level expression vector that utilizes a
     thermosensitive lac repressor Production of the human T cell receptor
     V-beta-5.3 in Escherichia coli.

L2   ANSWER 2 OF 16  BIOSIS  COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU   LEHMEIER B; AMANN E
TI   TAC PROMOTER VECTORS INCORPORATING THE BACTERIOPHAGE T7 GENE 10
     TRANSLATIONAL ENHANCER SEQUENCE FOR IMPROVED EXPRESSION OF CLONED GENES IN
     ESCHERICHIA-COLI.

L2   ANSWER 3 OF 16  BIOSIS  COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU   OLINS P O; DEVINE C S; RANGWALA S H; KAVKA K S
TI   THE T7 PHAGE GENE 10 LEADER RNA A RIBOSOME-BINDING SITE THAT DRAMATICALLY
     ENHANCES THE EXPRESSION OF FOREIGN GENES IN ESCHERICHIA-COLI.

L2   ANSWER 4 OF 16  CAPLUS  COPYRIGHT 2002 ACS
IN   Staub, Jeffrey M.
TI   Enhanced expression of green fluorescent protein peptide fusion proteins
     and method for producing herbicide-tolerant plants

L2   ANSWER 5 OF 16  CAPLUS  COPYRIGHT 2002 ACS
IN   Hajdukiewicz, Peter
TI   Expression of herbicide tolerance genes in plant plastids
```

L2 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2002 ACS
IN Hajdukiewicz, Peter; McBride, Kevin E.; Nehra, Narender; Schaaf, David J.; Stalker, David M.; Staub, Jeffrey M.; Ye, Guangning
TI Constructs and methods for the expression of genes conferring herbicide tolerance or encoding pharmaceutical proteins in plant plastids

L2 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2002 ACS
AU Andrews, Beth; Adari, Hedy; Hannig, Gerhard; Lahue, Elaine; Gosselin, Michael; Martin, Sue; Ahmed, Asma; Ford, Pamella J.; Hayman, Edward G.; Makrides, Savvas C.
TI A tightly regulated high level expression vector that utilizes a thermosensitive lac repressor: production of the human T cell receptor V.beta.5.3 in Escherichia coli

L2 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2002 ACS
AU Lopez, P. J.; Dreyfus, M.
TI The lacZ mRNA can be stabilized by the T7 late mRNA leader in E. coli

L2 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2002 ACS
AU Lehmeier, Birgit; Amann, Egon
TI Tac promoter vectors incorporating the bacteriophage T7 gene 10 translational enhancer sequence for improved expression of cloned genes in Escherichia coli

L2 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2002 ACS
AU Olins, Peter O.; Devine, Catherine S.; Rangwala, Shaukat H.
TI The epsilon translational enhancer. Application for efficient expression of foreign genes in Escherichia coli

L2 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2002 ACS
IN Drahos, David Joseph; Olins, Peter Olafs; Fuchs, Roy Lee; Rangwala, Shaukat Husaini
TI Regulated expression of heterologous genes from a recA promoter in gram-netgative bacteria

L2 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2002 ACS
AU Wang, Huayan; McConnell, David J.; O'Mahony, Daniel J.
TI An efficient temperature-inducible vector incorporating the T7 gene 10 translation initiation leader region

L2 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2002 ACS
AU Olins, Peter O.; Devine, Catherine S.; Rangwala, Shaukat H.; Kavka, Kamilla S.
TI The T7 phage gene 10 leader RNA, a ribosome-binding site that dramatically enhances the expression of foreign genes in Escherichia coli

L2 ANSWER 14 OF 16 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU Andrews B.; Adari H.; Hannig G.; Lahue E.; Gosselin M.; Martin S.; Ahmed A.; Ford P.J.; Hayman E.G.; Makrides S.C.
TI A tightly regulated high level expression vector that utilizes a thermosensitive lac repressor: Production of the human T cell receptor V.beta.5.3 in Escherichia coli.

L2 ANSWER 15 OF 16 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU Lehmeier B.; Amann E.
TI Tac promoter vectors incorporating the bacteriophage T7 gene 10 translational enhancer sequence for improved expression of cloned genes in Escherichia coli.

L2 ANSWER 16 OF 16 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU Olins P.O.; Devine C.S.; Rangwala S.H.; Kavka K.S.
TI The T7 phage gene 10 leader RNA, a ribosome-binding site that dramatically enhances the expression of foreign genes in Escherichia coli.

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=> s l2 and plant
L6            6 L2 AND PLANT

=> d l6 1-6 au ti

L6   ANSWER 1 OF 6  BIOSIS  COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU   OLINS P O; DEVINE C S; RANGWALA S H; KAVKA K S
TI   THE T7 PHAGE GENE 10 LEADER RNA A RIBOSOME-BINDING SITE THAT DRAMATICALLY
     ENHANCES THE EXPRESSION OF FOREIGN GENES IN ESCHERICHIA-COLI.

L6   ANSWER 2 OF 6  CAPLUS  COPYRIGHT 2002 ACS
IN   Staub, Jeffrey M.
TI   Enhanced expression of green fluorescent protein peptide fusion proteins
     and method for producing herbicide-tolerant plants

L6   ANSWER 3 OF 6  CAPLUS  COPYRIGHT 2002 ACS
IN   Hajdukiewicz, Peter
TI   Expression of herbicide tolerance genes in plant plastids

L6   ANSWER 4 OF 6  CAPLUS  COPYRIGHT 2002 ACS
IN   Hajdukiewicz, Peter; McBride, Kevin E.; Nehra, Narender; Schaaf, David J.;
     Stalker, David M.; Staub, Jeffrey M.; Ye, Guangning
TI   Constructs and methods for the expression of genes conferring herbicide
     tolerance or encoding pharmaceutical proteins in plant plastids

L6   ANSWER 5 OF 6  CAPLUS  COPYRIGHT 2002 ACS
AU   Olins, Peter O.; Devine, Catherine S.; Rangwala, Shaukat H.; Kavka,
     Kamilla S.
TI   The T7 phage gene 10 leader RNA, a ribosome-binding site that dramatically
     enhances the expression of foreign genes in Escherichia coli

L6   ANSWER 6 OF 6  EMBASE  COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU   Olins P.O.; Devine C.S.; Rangwala S.H.; Kavka K.S.
TI   The T7 phage gene 10 leader RNA, a ribosome-binding site that dramatically
     enhances the expression of foreign genes in Escherichia coli.


=> s sitostanol
L7          750 SITOSTANOL

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L8            7 SITOSTANOL AND TRANSFORM?

=> s sitostanol and transform? and plant
L9            1 SITOSTANOL AND TRANSFORM? AND PLANT

=> d l9 1

L9   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2002 ACS
AN   2001:320120  CAPLUS
DN   134:348952
TI   Use of non-feed back inhibited (truncated) hydroxymethylglutaryl CoA
     reductase gene (thmg1) from Hevea brasiliensis to increase level of
     4-desmethyl sterols in transgenic plant seeds
IN   Harker, Mark; Hellyer, Susan Amanda; Holmberg, Niklas; Safford, Richard
PA   Unilever N.V, Neth.; Unilever Plc; Hindustan Lever Ltd
SO   PCT Int. Appl., 75 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
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PI   WO 2001031027     A1   20010503       WO 2000-EP9374   20000926
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            ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
            LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
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            ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
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=> d l8 1-7 au ti

L8   ANSWER 1 OF 7  BIOSIS  COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU   Sneeringer, C. (1); Haddock, J. (1)
TI   Transformation of phytosterols to stanols by a mixed rumen
     culture.

L8   ANSWER 2 OF 7  BIOSIS  COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU   Uchida, Kiyohisa (1); Satoh, Takashi; Narushima, Seiko; Itoh, Kikuji;
     Takase, Haruto; Kuruma, Kazuo; Nakao, Hiroyuki; Yamaga, Nobuo; Yamada,
     Kazuo
TI   Transformation of bile acids and sterols by clostridia (fusiform
     bacteria) in Wistar rats.

L8   ANSWER 3 OF 7  CAPLUS  COPYRIGHT 2002 ACS
IN   Harker, Mark; Hellyer, Susan Amanda; Holmberg, Niklas; Safford, Richard
TI   Use of non-feed back inhibited (truncated) hydroxymethylglutaryl CoA
     reductase gene (thmg1) from Hevea brasiliensis to increase level of
     4-desmethyl sterols in transgenic plant seeds

L8   ANSWER 4 OF 7  CAPLUS  COPYRIGHT 2002 ACS
AU   Uchida, Kiyohisa; Satoh, Takashi; Narushima, Seiko; Itoh, Kikuji; Takase,
     Haruto; Kuruma, Kazuo; Nakao, Hiroyuki; Yamaga, Nobuo; Yamada, Kazuo
TI   Transformation of bile acids and sterols by clostridia (fusiform
     bacteria) in wistar rats

L8   ANSWER 5 OF 7  CAPLUS  COPYRIGHT 2002 ACS
AU   Marker, Russell E.; Wittle, Eugene L.
TI   Sterols. XXIV. Sitostenone and stigmastenone

L8   ANSWER 6 OF 7  EMBASE  COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU   Uchida K.; Satoh T.; Narushima S.; Itoh K.; Takase H.; Kuruma K.; Nakao
     H.; Yamaga N.; Yamada K.
TI   Transformation of bile acids and sterols by clostridia (fusiform
     bacteria) in Wistar rats.

L8   ANSWER 7 OF 7  EMBASE  COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU   Szykuca J.; Hebda C.; Orpiszewski J.; Saganska K.
TI   Microbial transformation of neutral fraction and upgraded
     neutral fraction of polish tall oil.


=> s phytosterol and transform? and plant
L10         54 PHYTOSTEROL AND TRANSFORM? AND PLANT

=> duplicate remove l10
DUPLICATE PREFERENCE IS 'AGRICOLA, BIOSIS, CAPLUS, EMBASE'
KEEP DUPLICATES FROM MORE THAN ONE FILE?  Y/(N):n
PROCESSING COMPLETED FOR L10
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L11 42 DUPLICATE REMOVE L10 (12 DUPLICATES REMOVED)

=> d l11 1-10 au ti

L11 ANSWER 1 OF 42 AGRICOLA DUPLICATE 1
AU Corbin, D.R.; Grebenok, R.J.; Ohnmeiss, T.E.; Greenplate, J.T.; Purcell, J.P.
TI Expression and chloroplast targeting of cholesterol oxidase in transgenic tobacco **plants**.

L11 ANSWER 2 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Liu, Jim-Wen (1); DeMichele, Stephen; Bergana, Marti; Bobik, Emil, Jr.; Hastilow, Christine; Chuang, Lu-Te; Mukerji, Pradip; Huang, Yung-Sheng
TI Characterization of oil exhibiting high gamma-linolenic acid from a genetically **transformed** canola strain.

L11 ANSWER 3 OF 42 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU Kushiro M.; Nakano T.; Sato K.; Yamagishi K.; Asami T.; Nakano A.; Takatsuto S.; Fujioka S.; Ebizuka Y.; Yoshidat S.
TI Obtusifoliol 14.alpha.-demethylase (CYP51) antisense Arabidopsis shows slow growth and long life.

L11 ANSWER 4 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 2
AU Chitwood, David J. (1)
TI Metabolism of **plant** sterols by nematodes.

L11 ANSWER 5 OF 42 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU Nes W.D.
TI Sterol methyl transferase: Enzymology and inhibition.

L11 ANSWER 6 OF 42 CAPLUS COPYRIGHT 2002 ACS
IN Cahoon, Rebecca E.; Kinney, Anthony J.; Sakai, Hajime; Shen, Jennie Bih-jien; Butler, Karlene H.; Saylor, James J.
TI Polynucleotides (cDNA) and polypeptides of **plant** lecithin cholesterol acyltransferase sequence homologs, sequences and biological uses thereof

L11 ANSWER 7 OF 42 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU Lovato M.A.; Hart E.A.; Segura M.J.R.; Giner J.-L.; Matsuda S.P.T.
TI Functional cloning of an Arabidopsis thaliana cDNA encoding cycloeucalenol cycloisomerase.

L11 ANSWER 8 OF 42 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU Moghadasian M.H.
TI Pharmacological properties of **plant** sterols in vivo and in vitro observations.

L11 ANSWER 9 OF 42 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AU Ekiert H.
TI Medicinal **plant** biotechnology: The Apiaceae family as the example of rapid development.

L11 ANSWER 10 OF 42 AGRICOLA DUPLICATE 3
AU Nes, W.D.
TI Sterol methyl transferase: enzymology and inhibition.

=> s phytosterol(w)ester and transform? and plant
L12 0 PHYTOSTEROL(W) ESTER AND TRANSFORM? AND PLANT

=> s phytostanol(w)ester and transform? and plant
L13 0 PHYTOSTANOL(W) ESTER AND TRANSFORM? AND PLANT

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=> s phytostanol and transform? and plant
L14           0 PHYTOSTANOL AND TRANSFORM? AND PLANT

=> s 3-hydroxysteroid(w)oxidase and plant and transform?
L15           4 3-HYDROXYSTEROID(W) OXIDASE AND PLANT AND TRANSFORM?

=>  l15 1-4 au ti
L15 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> d l15 1-4 au ti

L15  ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2002 ACS
IN   Greenplate, John T.; Pershing, Jay C.; Purcell, John P.; Corbin, David R.
TI   Controlling insects with synergistic compositions of 3-
     hydroxysteroid oxidase and Bacillus thuringiensis
     crystal protein toxins

L15  ANSWER 2 OF 4  CAPLUS  COPYRIGHT 2002 ACS
IN   Corbin, David R.; Greenplate, John T.; Jennings, Michael G.; Purcell, John
     P.; Sammons, Robert D.
TI   Control of plant insect infestation with recombinant
     plant-colonizing microorganisms expressing 3-
     hydroxysteroid oxidase

L15  ANSWER 3 OF 4  CAPLUS  COPYRIGHT 2002 ACS
IN   Corbin, David R.; Greenplate, John T.; Jennings, Michael G.; Purcell, John
     P.; Sammons, Robert D.
TI   Use of microbial genes for 3-hydroxysteroid
     oxidase to control insect pests of plants

L15  ANSWER 4 OF 4  CAPLUS  COPYRIGHT 2002 ACS
IN   Corbin, David Richard; Greenplate, John Thomas; Jennings, Michael Girard;
     Purcell, John Patrick; Sammons, Robert Douglas
TI   Control of lepidopteran insects using 3-hydroxysteroid
     oxidase and transgenic plants expressing the gene


=> d l15 1-4

L15  ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2002 ACS
AN   1998:397734  CAPLUS
DN   129:50846
TI   Controlling insects with synergistic compositions of 3-
     hydroxysteroid oxidase and Bacillus thuringiensis
     crystal protein toxins
IN   Greenplate, John T.; Pershing, Jay C.; Purcell, John P.; Corbin, David R.
PA   Monsanto Co., USA
SO   U.S., 25 pp., Cont.-in-part of U. S. 5,558,862.
     CODEN: USXXAM
DT   Patent
LA   English
FAN.CNT 4
     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
     ----------------  ----  --------      ---------------  --------
PI   US 5763245         A    19980609      US 1996-712057   19960910
     US 5518908         A    19960521      US 1993-83948    19930628
     US 5554369         A    19960910      US 1995-393785   19950224
     US 5558862         A    19960924      US 1995-475694   19950607
PRAI US 1991-762682          19910923
     US 1992-937195          19920904
     US 1993-83948           19930628
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US 1995-393785 19950224
US 1995-475694 19950607

L15 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS
AN 1996:610278 CAPLUS
DN 125:295245
TI Control of **plant** insect infestation with recombinant **plant**-colonizing microorganisms expressing **3-hydroxysteroid oxidase**
IN Corbin, David R.; Greenplate, John T.; Jennings, Michael G.; Purcell, John P.; Sammons, Robert D.
PA Monsanto Co., USA
SO U.S., 18 pp. Cont.-in-part of U.S. Ser. No. 393,785.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5558862	A	19960924	US 1995-475694	19950607
	US 5518908	A	19960521	US 1993-83948	19930628
	US 5554369	A	19960910	US 1995-393785	19950224
	US 5763245	A	19980609	US 1996-712057	19960910
PRAI	US 1991-762682		19910923		
	US 1992-937195		19920904		
	US 1993-83948		19930628		
	US 1995-393785		19950224		
	US 1995-475694		19950607		

L15 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS
AN 1996:366092 CAPLUS
DN 125:79420
TI Use of microbial genes for **3-hydroxysteroid oxidase** to control insect pests of **plants**
IN Corbin, David R.; Greenplate, John T.; Jennings, Michael G.; Purcell, John P.; Sammons, Robert D.
PA Monsanto Co., USA
SO U.S., 18 pp. Cont.-in-part of U.S. Ser. No. 937,195, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5518908	A	19960521	US 1993-83948	19930628
	WO 9501098	A2	19950112	WO 1994-US7252	19940624
	W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, GE, HU, JP, KE, KG, KR, KZ, LK, LV, MD, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2163120	AA	19950112	CA 1994-2163120	19940624
	AU 9472140	A1	19950124	AU 1994-72140	19940624
	AU 686200	B2	19980205		
	EP 706320	A1	19960417	EP 1994-921398	19940624
	EP 706320	B1	19970108		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	CN 1126423	A	19960710	CN 1994-192623	19940624
	HU 73324	A2	19960729	HU 1995-3805	19940624
	BR 9406965	A	19960827	BR 1994-6965	19940624
	AT 147231	E	19970115	AT 1994-921398	19940624
	JP 09500528	T2	19970121	JP 1994-503588	19940624
	ES 2097656	T3	19970401	ES 1994-921398	19940624
	PL 176372	B1	19990531	PL 1994-312277	19940624

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     US 5554369         A     19960910       US 1995-393785   19950224
     US 5558862         A     19960924       US 1995-475694   19950607
     US 5763245         A     19980609       US 1996-712057   19960910
PRAI US 1991-762682             19910923
     US 1992-937195             19920904
     US 1993-83948              19930628
     WO 1994-US7252             19940624
     US 1995-393785             19950224
     US 1995-475694             19950607

L15  ANSWER 4 OF 4  CAPLUS  COPYRIGHT 2002 ACS
AN   1995:452145  CAPLUS
DN   123:77171
TI   Control of lepidopteran insects using 3-hydroxysteroid
     oxidase and transgenic plants expressing the gene
IN   Corbin, David Richard; Greenplate, John Thomas; Jennings, Michael Girard;
     Purcell, John Patrick; Sammons, Robert Douglas
PA   Monsanto Co., USA
SO   PCT Int. Appl., 38 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 4
     PATENT NO.         KIND  DATE           APPLICATION NO.  DATE
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PI   WO 9501098          A2   19950112       WO 1994-US7252   19940624
         W:  AU, BB, BG, BR, BY, CA, CN, CZ, FI, GE, HU, JP, KE, KG, KR, KZ,
             LK, LV, MD, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT,
             UA, UZ, VN
         RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
             BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
     US 5518908          A     19960521       US 1993-83948    19930628
     AU 9472140          A1    19950124       AU 1994-72140    19940624
     AU 686200           B2    19980205
     EP 706320           A1    19960417       EP 1994-921398   19940624
     EP 706320           B1    19970108
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
     BR 9406965          A     19960827       BR 1994-6965     19940624
     JP 09500528         T2    19970121       JP 1994-503588   19940624
     PL 176372           B1    19990531       PL 1994-312277   19940624
PRAI US 1993-83948              19930628
     US 1991-762682             19910923
     US 1992-937195             19920904
     WO 1994-US7252             19940624


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nested terms that are not separated by a logical operator.

=> s l15 and seed
L16           2 L15 AND SEED

=> d l16 1-2

L16  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2002 ACS
AN   1998:397734  CAPLUS
DN   129:50846
TI   Controlling insects with synergistic compositions of 3-
     hydroxysteroid oxidase and Bacillus thuringiensis
     crystal protein toxins
IN   Greenplate, John T.; Pershing, Jay C.; Purcell, John P.; Corbin, David R.
PA   Monsanto Co., USA
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SO U.S., 25 pp., Cont.-in-part of U. S. 5,558,862.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5763245	A	19980609	US 1996-712057	19960910
	US 5518908	A	19960521	US 1993-83948	19930628
	US 5554369	A	19960910	US 1995-393785	19950224
	US 5558862	A	19960924	US 1995-475694	19950607
PRAI	US 1991-762682		19910923		
	US 1992-937195		19920904		
	US 1993-83948		19930628		
	US 1995-393785		19950224		
	US 1995-475694		19950607		

L16 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
AN 1996:366092 CAPLUS
DN 125:79420
TI Use of microbial genes for **3-hydroxysteroid oxidase** to control insect pests of **plants**
IN Corbin, David R.; Greenplate, John T.; Jennings, Michael G.; Purcell, John P.; Sammons, Robert D.
PA Monsanto Co., USA
SO U.S., 18 pp. Cont.-in-part of U.S. Ser. No. 937,195, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5518908	A	19960521	US 1993-83948	19930628
	WO 9501098	A2	19950112	WO 1994-US7252	19940624
	W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, GE, HU, JP, KE, KG, KR, KZ, LK, LV, MD, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2163120	AA	19950112	CA 1994-2163120	19940624
	AU 9472140	A1	19950124	AU 1994-72140	19940624
	AU 686200	B2	19980205		
	EP 706320	A1	19960417	EP 1994-921398	19940624
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	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	CN 1126423	A	19960710	CN 1994-192623	19940624
	HU 73324	A2	19960729	HU 1995-3805	19940624
	BR 9406965	A	19960827	BR 1994-6965	19940624
	AT 147231	E	19970115	AT 1994-921398	19940624
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	US 1995-393785		19950224		
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